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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,117	10/21/2003	David J. Vachon	1695.003	5330
23405	7590	11/25/2008	EXAMINER	
HESLIN ROTHENBERG FARLEY & MESITI PC			BROOKS, KRISTIE LATRICE	
5 COLUMBIA CIRCLE			ART UNIT	PAPER NUMBER
ALBANY, NY 12203			1616	
MAIL DATE		DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/691,117	Applicant(s) VACHON ET AL.
	Examiner KRISTIE L. BROOKS	Art Unit 1616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 12 May 2008.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 15-17,29-32 and 34-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 15-17,29-32 and 34-39 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/06)
 Paper No(s)/Mail Date 4/8/08
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Status of Application

1. Claims 15-17, 29-32 and 34-39 are pending. Claims 35-39 are new.
2. Receipt and consideration of Applicants remarks/arguments submitted on May 12, 2008 is acknowledged.
3. Rejections not reiterated from the previous Office Action are hereby withdrawn.

The following rejections are either reiterated or newly applied. They constitute the complete set of rejections presently being applied to the instant application.

New Grounds of Rejections necessitated by Applicants Amendment

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
5. Claims 15-17, 29-32 and 34-39 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 recites "said porous surface is an article *selected from the group comprising* a garment, a gas filter, a laboratory work surface, a laboratory wipe, and a wound dressing." This is in improper Markush format. It is improper to use the term "comprising" instead of "consisting of." (see MPEP 2173.05(h)).

Claims 16-17, 29-32 and 34-39 are rejected for being dependent on a rejected claim.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
 2. Ascertaining the differences between the prior art and the claims at issue.
 3. Resolving the level of ordinary skill in the pertinent art.
 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
7. Claims 15-17, 29-30 and 34-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klier et al. (US 2004/0081829).

Applicant claims a method for controlling biological organisms on a porous surface said method comprising forming a water-insoluble coating comprising at least one salt of a polysulfonated hydrogel on the porous surface said porous surface is an article selected from the group comprising a garment, a gas filter, a laboratory work surface, a laboratory wipe, and a wound dressing or said porous surface comprises paper or fabric.

Determination of the scope and content of the prior art

(MPEP 2141.01)

Klier et al. teach an absorbent polymer composition comprising A) sulfonated substantially random interpolymers and B) one or more polymers other than said sulfonated substantially random interpolymer (see page 1 paragraph 4 and page 2 paragraphs 19-24). The sulfonated substantially random interpolymers are derived from ethylene and/or one or more alpha olefins (i.e. propylene, butene-1, hexen-1, etc.), one or more sulfonated vinyl or vinylidene aromatic monomers, and vinyl or vinylidene aromatic monomers (i.e. styrene) (see page 3 paragraph 46-47, and page 4 paragraphs 48-49). The one or more polymers other than said sulfonated substantially random interpolymer include homogenous α -olefin homopolymer or interpolymer, block copolymers, such as SIS, SEBS, thermoplastic polyurethanes, etc. (see page 6 paragraphs 72-73). The sulfonated substantially random interpolymers can be in either the sulfonic acid form, or as a neutralized or partially neutralized salt with neutralizing agents or bases, such as, ammonium, ammonium hydroxide, sodium hydroxide, etc. (see page 1 paragraph 4 and page 6 paragraph 68). The absorbent polymer compositions can be used on articles for personal hygiene, such as diapers, or absorbent wipes, fabrics, garments, films, bandages, medical applications for delivering pharmaceuticals, etc. (see page 2 paragraph 25, page 3 paragraph 34, and page 12 paragraphs 139-141).

**Ascertainment of the difference between the prior art and the claims
(MPEP 2141.02)**

Klier et al. do not exemplify forming a coating with the instant salt of a polysulfonated hydrogel on the instantly claimed porous surfaces. Further, Klier et al. do not exemplify the instant method of controlling biological organisms on a porous surface with the instant salt of a polysulfonated hydrogel.

**Finding of prima facie obviousness
Rational and Motivation (MPEP 2142-2143)**

One of ordinary skill in the art would have been motivated to form a coating with the instant salt of a polysulfonated hydrogel on the instantly claimed porous surfaces because Klier et al. suggest the instant compounds for the preparation of and application to fabrics, garments, bandages, films, wipes, diapers, etc. or any article used for absorbent purposes.

Thus, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to form a coating with the instant salt of a polysulfonated hydrogel on the instantly claimed porous surfaces since they are all useful absorbent articles that the instant compounds are useful for.

With regard to the preamble in claim 1 and 39, i.e. a method for controlling biological organisms on a porous surface, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to control biological

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organisms with the instant polysulfonated hydrogel because, absence evidence to the contrary, since the method steps of the prior art and the instant invention are the same, i.e. forming a coating on a porous surface with the same salt of a polysulfonated hydrogel, the claimed method would implicitly occur upon application to said porous surface.

Therefore, the claimed method would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made because the prior art is fairly suggestive of the claimed method.

8. Claims 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klier et al. (US 2004/0081829) in view of Wood et al. (US 5,429,590).

Applicant claims a method for controlling biological organisms on a porous surface said method comprising forming a water-insoluble coating comprising at least one salt of a polysulfonated hydrogel on the porous surface said porous surface is an article selected from the group comprising a garment, a gas filter, a laboratory work surface, a laboratory wipe, and a wound dressing or said porous surface comprises paper or fabric.

Determination of the scope and content of the prior art

(MPEP 2141.01)

Klier et al. teach an absorbent polymer composition comprising A) sulfonated substantially random interpolymers and B) one or more polymers other than said

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sulfonated substantially random interpolymer (see page 1 paragraph 4 and page 2 paragraphs 19-24). The sulfonated substantially random interpolymers are derived from ethylene and/or one or more alpha olefins (i.e. propylene, butene-1, hexen-1, etc.), one or more sulfonated vinyl or vinylidene aromatic monomers, and vinyl or vinylidene aromatic monomers (i.e. styrene) (see page 3 paragraph 46-47, and page 4 paragraphs 48-49). The one or more polymers other than said sulfonated substantially random interpolymer include homogenous α -olefin homopolymer or interpolymer, block copolymers, such as SIS, SEBS, thermoplastic polyurethanes, etc. (see page 6 paragraphs 72-73). The sulfonated substantially random interpolymers can be in either the sulfonic acid form, or as a neutralized or partially neutralized salt with neutralizing agents or bases, such as, ammonium, ammonium hydroxide, sodium hydroxide, etc. (see page 1 paragraph 4 and page 6 paragraph 68). The absorbent polymer compositions can be used in the preparation and for application to articles for personal hygiene, such as diapers, or absorbent wipes, fabrics, garments, films, bandages, medical applications for delivering pharmaceuticals, etc. (see page 2 paragraph 25, page 3 paragraph 34, and page 12 paragraphs 139-141).

**Ascertainment of the difference between the prior art and the claims
(MPEP 2141.02)**

Klier et al. do not exemplify forming a coating with a tetracycline, such as, doxycycline. This deficiency is cured by the teachings of Wood et al.

Wood et al. teach a controlled release bandage comprising therapeutic agents in polymeric cryogels (see the abstract). The bandage provides a controlled release and a sterile infection resisting bandage for protecting sites against damage (see column 3 lines 15-17). An example of a therapeutic agent includes tetracycline's (tetracycline, doxycycline, etc.) (see page 5 lines 3-6).

Finding of prima facie obviousness

Rational and Motivation (MPEP 2142-2143)

One of ordinary skill in the art would have been motivated to incorporate a tetracycline, such as, doxycycline, in the instant polysulfonated hydrogel coating because Klier et al. suggest the instant compounds are useful in bandages and medical applications for delivering pharmaceuticals.

Thus, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to incorporate a tetracycline, such as, doxycycline, in the instant coating because it is obvious additional component to be added to polymeric compositions in medical bandages for delivering pharmaceuticals as suggested by Wood et al. Furthermore, it will enhance the effectiveness of the coating by providing additional protection against the growth of biological organisms.

Therefore, the claimed method would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made because the prior art is fairly suggestive of the claimed method.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KRISTIE L. BROOKS whose telephone number is (571)272-9072. The examiner can normally be reached on M-F 8:30am-6:00pm Est..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on (571) 272-0646. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KB

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616